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NOTICE OF ALLOWANCE AND FEE(S) DUE

28731

7500

07/07/2009

LEE WEINSTEIN 32A FAIRMONT STREET ARLINGTON, MA 02474 EXAMINER

NGUYEN, TU X

ART UNIT PAPER NUMBER

2618

DATE MAILED: 07/07/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734.601	12/12/2003	Gill Pratt	SPACETIMERPA1	1624

TITLE OF INVENTION: DELAY BASED SPACE AND TIME COORDINATED REPEATER SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$0	\$720	\$755	10/07/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
LEE WEINST 32A FAIRMON ARLINGTON, M	T STREET	/2009	I h Sta ado tra:	Cert ereby certify that this tes Postal Service wi tressed to the Mail asmitted to the USPT	ificates Fee(sth suff Stop O (57	of Mailing or Transn s) Transmittal is being ficient postage for first ISSUE FEE address a 1) 273-2885, on the da	deposited with the United class mail in an envelope above, or being facsimile te indicated below.
							(Depositor's name)
			_				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTO]	RNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	YES	\$755	\$0	\$720		\$755	10/07/2009
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CFR 1.363). Change of corresp Address form PTO/SI "Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. ASSIGNEE NAME A	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	nge of Correspondence Indication form and. Use of a Customer A TO BE PRINTED ON T	2. For printing on the (1) the names of up t or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent att- listed, no name will be THE PATENT (print or ty data will appear on the TT a substitute for filing ar (B) RESIDENCE: (CIT	o 3 registered patent ively, the firm (having as a agent) and the name orneys or agents. If ne printed. Type) Deatent. If an assigned assignment.	attorn members of up o nam	er a 2p to ge is 3lentified below, the documents	cument has been filed for
Please check the appropriate. The following fee(s):		categories (will not be pr	inted on the patent): D. Payment of Fee(s): (Ple				np entity Government hown above)
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a. Applicant claim	tus (from status indicated as SMALL ENTITY statu	ıs. See 37 CFR 1.27.	☐ b. Applicant is no los	-			
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28731 7590 07/07/2009			EXAMINER		
LEE WEINSTEI	N	NGUYEN, TU X			
32A FAIRMONT STREET ARLINGTON, MA 02474			ART UNIT	PAPER NUMBER	
			2618		
			DATE MAILED: 07/07/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 208 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 208 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/724 004		
Notice of Allowability	10/734,601 Examiner	PRATT ET AL. Art Unit	
-	THE MOUNTAIN		
	TU X. NGUYEN	2618	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS . This application is	in this application. If not include nunication will be mailed in due o	d ourse. THIS
1. This communication is responsive to 6/01/09.			
2. The allowed claim(s) is/are <u>1-7 and 15-25</u> .			
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		or (f).	
2. Certified copies of the priority documents have	been received in Applicat	on No	
3. Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage applicati	on from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the req	uirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ote the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
3. Information Disclosure Statements (PTO/SB/08),	Paper No 7.	./Mail Date s Amendment/Comment	
Paper No./Mail Date 4.		s Statement of Reasons for Allov	vance
	9.	_·	

DETAILED ACTION

Allowable Subject Matter

Claims 1-7 and 15-25 are allow.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art, Ames (US Patent 5233626), discloses the receiver includes circuitry for combing together all equalized correlated copies of the signal to provide a demodulator with a composite received signal. The combining circuitry weighs each equalized correlated copy proportional to a signal strength thereof such that those copies having a greater signal strength contribute a greater proportion to the content of the composite signal than do those copies having a lesser signal strength; however, Ames fails to teach demodulating said re-transmitted wireless signals separately within said destination receiver to produce a set of demodulated signals", as cited in the claims.

Regarding claim 15, the prior art fails to teach modulating means for modulating said wireless signals to produce a set of modulated

signals, said modulating means coupled to said receiving means; summing means for aligning in time and summing said plurality of digital signals into a single digital sum signal with a signal-to-noise ratio higher than any of said digital signals, as cited in the claim.

Regarding claim 16, the prior art fails to teach delaying each of said plurality of wireless signals by a separately predetermined delay to produce a set of delayed wireless signals; combining said delayed wireless signals into a reconstituted wireless signal; and retransmitting said reconstituted wireless signal, as cited in the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed Tu Nguyen whose telephone number is 571-272-7883.

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Art Unit: 2618

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Tu X Nguyen/

Primary Examiner, Art Unit 2618

07/02/09